

Appl. No. 10/709,525
Amdt. dated March 22, 2006
Reply to Office action of January 13, 2006

Listing of Claims:

1. (previously presented) A liquid crystal display (LCD) module, comprising:

5 a housing comprising a plurality of openings formed in a lower surface of said housing;

an LCD panel formed within said housing, said LCD panel comprising a display area, a peripheral circuit area formed on said LCD panel, and a plurality of driver integrated circuits formed in the peripheral circuit area of the LCD panel; and

10 a flexible printed circuit board (FPCB) formed on the edge of the peripheral circuit area of the LCD panel, the FPCB having an extending portion and a plurality of light emitting diodes (LEDs) formed below the lower surface of the extending portion;

15 wherein the LEDs of the FPCB would be inset into corresponding openings of the housing when the extending portion of the FPCB crosses the edge of the LCD panel and being deflexed to the lower surface of the housing.

20 2. (original) The LCD module of claim 1 wherein the housing is a rectangular-plate reflect-frame.

3. (original) The LCD module of claim 1 wherein the LCD panel is a thin film transistor LCD (TFT-LCD) panel.

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4. (original) The LCD module of claim 1 wherein the FPC board comprises a copper clad laminate or tape carrier package.

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5. (original) The LCD module of claim 1 wherein each of the LEDs is a backlight source of the LCD panel used to illuminate the LCD panel.

6. (original) The LCD module of claim 1 wherein each driver integrated
5 circuit comprises a gate driver integrated circuit or source driver integrated circuit.

7. (original) The LCD module of claim 1 further comprising a light-guide
10 plate, a diffusion sheet, or an optical thin film formed between the LCD panel and the housing.

8. (previously presented) The LCD module of claim 1 further comprising a plurality of electrical components formed below the lower surface of the FPCB.
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9. (previously presented) A liquid crystal display (LCD) module, comprising:

a housing comprising a plurality of openings formed in a lower surface of said housing;

20 an LCD panel comprising a display area and a peripheral circuit area; and

a flexible printed circuit board (FPCB) connected to the edge of the peripheral circuit area, the FPCB having an extending portion and a plurality of light emitting diodes (LEDs) connected to the lower
25 surface of the extending portion;

wherein the extending portion of the FPCB crosses the edge of the housing and the LEDs inset into the corresponding openings of the housing.

Appl. No. 10/709,525
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10. (previously presented) The LCD module of claim 9 further comprising a plurality of driver integrated circuits formed in the peripheral circuit area of the LCD panel.

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11. (previously presented) The LCD module of claim 9 wherein the flexible printed circuit board is connected to the edge of the peripheral circuit area by the lower surface of the extending portion.

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